



FORM 100
Personal Data Form
PART I

Date

2009/11/27

| | | | |
|------------------------|-----------------------|-------------------------------------|--|
| Family name Bazinet | Given name Laurent | Initial(s) of all given names LR | Personal identification no. (PIN) Valid 264042 |
|------------------------|-----------------------|-------------------------------------|--|

☐ I hold a faculty position at an eligible Canadian college
(complete Appendices B1 and C)

☐ I do not or will not hold an academic appointment at a
Canadian postsecondary institution

Place of employment other than a Canadian postsecondary
Institution (give address in Appendix A)

APPOINTMENT AT A POSTSECONDARY INSTITUTION

| | | |
|--|---|---|
| Title of position Associate Professor | Tenured or tenure-track academic appointment | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Department aliments & de nutrition, Science des | Part-time appointment <input type="checkbox"/> | Full-time appointment <input checked="" type="checkbox"/> |
| Campus | <ul style="list-style-type: none">For all non-tenured or non tenure-track academic appointment and Emeritus Professors, complete Appendices B & CFor life-time Emeritus Professor and part-time positions, complete Appendix C | |
| Canadian postsecondary institution Laval | | |

ACADEMIC BACKGROUND

| Degree | Name of discipline | Institution | Country | Date yyyy/mm |
|------------|---|--|---------|-----------------|
| Bachelor's | | | | |
| Master's | Sciences et Technologie des Aliments | Université Laval | Canada | 1994 / 02 |
| Doctorate | Sciences et Technologie des Aliments | Université Laval | Canada | 2000 / 06 |
| Ingénieur | Agriculture et Agro-Alimentaire | École Supérieure d'Agriculture d'Angers | FRANCE | 1993 / 12 |

TRAINING OF HIGHLY QUALIFIED PERSONNEL

Indicate the number of students, fellows and other research personnel that you:

| | Currently | | Over the past six years (excluding the current year) | | Total |
|---------------|------------|---------------|---|---------------|-------|
| | Supervised | Co-supervised | Supervised | Co-supervised | |
| Undergraduate | | | 17 | | 17 |
| Master's | 1 | 1 | 6 | 1 | 9 |
| Doctoral | 4 | | 4 | | 8 |
| Postdoctoral | | | 1 | 1 | 2 |
| Others | 3 | | 5 | | 8 |
| Total | 8 | 1 | 33 | 2 | 44 |

ACADEMIC, RESEARCH AND INDUSTRIAL EXPERIENCE (use one additional page if necessary)

| Position held (begin with current) | Organization | Department | Period (yyyy/mm to yyyy/mm) |
|--|---|--|-----------------------------|
| Associate Professor | Laval | aliments & de nutrition, Science des | 2007/07 |
| Professeur adjoint | Université Laval | Sciences des aliments et de nutrition | 2002/07 to 2007/06 |
| Agent de valorisation de la recherche | Université de Sherbrooke | Bureau de Liaison Entreprise-Université | 2002/01 to 2002/06 |
| Chercheur | Impérial Tobacco Canada | Procédé | 2001/11 to 2002/01 |
| Chercheur | Impérial Tobacco Canada | Procédés | 2001/06 to 2001/10 |
| Ingénieur-Chercheur | Agriculture et Agro-Alimentaire Canada | Technologies de conservation | 1998/04 to 2001/04 |
| Ingénieur de recherche | Agriculture et Agro-Alimentaire Canada | Technologies de conservation | 1996/01 to 1998/03 |

Personal identification no. (PIN)

Family name

Valid 264042

Bazinet

RESEARCH SUPPORT

| Family name and initial(s) of applicant | Title of proposal, funding source and program, and time commitment (hours/month) | Amount per year | Years of tenure (yyyy) |
|--|---|--------------------|------------------------------|
| List all sources of support (including NSERC grants and university start-up funds) held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required. | | | |
| a) Support held in the past 4 years | | | |
| L. Bazinet | Mise au point et étude d'un procédé d'électromigration permettant la séparation, la purification et le fractionnement des isoflavones du soya | 15,000 | 2002 |
| | FQRNT | 15,000 | 2003 |
| | Établissement de nouveaux chercheurs : Fonctionnement 30 hours/month | 15,000 | 2004 |
| L. Bazinet | Mise au point et étude d'un procédé d'électromigration permettant la séparation, la purification et le fractionnement des isoflavones du soya | 32,670 | 2002 |
| | FQRNT Établissement de nouveaux-chercheurs : Équipement | 16,330 | 2003 |
| L. Bazinet | Appareillage de pointe pour l'étude des phénomènes électrodialytiques et de leurs impacts sur les composantes bio-alimentaires | 400,000 | 2003 |
| | Fondation Canadienne pour l'Innovation Fonds de la relève (Équipement) | 104,035 | 2004 |
| M. Britten, L. Bazinet et 7 autres | Régulation électrochimique du potentiel d'électroréduction du lait : impact sur l'efficacité de transformation et la qualité des produits | 60,000 (20%) | 2003 |
| | FQRNT-Novalait-MAPAQ | 107,768 (20%) | 2004 |
| | Action Concertée-Production et transformation laitière | 45,500 (20%) | 2005 |
| | | 27,549 (20%) | 2006 |
| | | 9,183 (50%) | 2007 |
| | 10 hours/month | | |

RESEARCH SUPPORT

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| a) Support held in the past 4 years | | | |
| L. Bazinet | Étude des phénomènes électrodialytiques : | 24,000 | 2003 |
| | colmatage des membranes en cours de procédés | 24,000 | 2004 |
| | CRSNG | 24,000 | 2005 |
| | Subvention à la découverte | 24,000 | 2006 |
| | 15 hours/month | 24,000 | 2007 |
| L. Bazinet | Appareillages de pointe pour l'étude des | 19,990 | 2003 |
| | phénomènes électrodialytiques et leur impacts sur | 19,990 | 2004 |
| | les composantes bio-alimentaires | 9,990 | 2005 |
| | Fondation canadienne pour l'Innovation | 5,000 | 2006 |
| | Fonds d'exploitation des infrastructures | 5,000 | 2007 |
| L. Bazinet, J. Arul, A. Maatescu et S. Brunet | Optimisation et rationalisation électrodialytique | 37,500 (80%) | 2004 |
| | de la transformation du chitosane en oligomères | 65,000 (80%) | 2005 |
| | FQRNT | 65,000 (80%) | 2006 |
| | Action concertée sciences et technologies de la | 27,500 (80%) | 2007 |
| | mer | | |
| Y. Pouliot, L. Bazinet, et 4 collaborateurs | Développement d'une approche intégrée pour la | 29,000 (10%) | 2006 |
| | valorisation des solides du babeurre | 85,667 (20%) | 2007 |
| | FQRNT-Novalait-MAPAQ | 55,334 (20%) | 2008 |
| | Action Concertée-Production et transformation | | |
| | laitière | | |
| | 5 hours/month | | |

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| RESEARCH SUPPORT | | | |
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| List all sources of support (including NSERC grants and university start-up funds) held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required. | | | |
| a) Support held in the past 4 years | | | |
| S. Kaliaguine, L. Bazinet and 1 coll | Charge driven self-assembly of nanocomposites | 55,500 (20%) | 2006 |
| | CRSNG | 61,250 (30%) | 2007 |
| | RDC 10 hours/month | 44,000 (10%) | 2008 |
| Desjardins, Y.; Bazinet, L. et 3 coll | Analyse et caractérisation des composantes majeures et mineures de la sève d'érable et de ses coproduits | 75,278 (10%) | 2006 |
| | Partenaire privé Contrat de recherche 5 hours/month | 75,278 (5%) | 2007 |
| Bazinet, L.; Dhulster, P.; Amiot, J. | Production et purification des peptides bioactifs de Rubisco par un procédé unique couplant l'hydrolyse enzymatique et l'électrodialyse avec membrane d'ultrafiltration | 12,952 (20%) | 2007 |
| | Ministère des Relations internationales Projet de coopération de recherche scientifique et technolog 5 hours/month | 19,017 (60%) | 2008 |
| Bazinet, L.; Dhulster, P.; Amiot, J. | Séparation des peptides bioactifs de Rubisco par EDUF | 25,000(100%) | 2007 |
| | Partenaires privés Contrat de recherche 5 hours/month | 25,000(100%) | 2008 |

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| List all sources of support (including NSERC grants and university start-up funds) held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required. | | | |
| a) Support held in the past 4 years | | | |
| B. Cancino, L. Bazinet et 4 collaborateurs | Internacionalización del grupo de investigación en procesos de alimentos | 34,000 (10%) | 2007 |
| | CONYCIT (Chili) Développement Coopération Internationale pour l'excellence 2 hours/month | 34,000 (10%) | 2008 |
| b) Support currently held | | | |
| Bazinet L, Pouliot Y, Kaliaguine S, Belkhacemi K | Analyseur électrocinétique | 89,000(100%) | |
| | CRSNG outils de recherche 4 hours/month | | |
| B. Lamarche, L. Bazinet et 38 collaborateurs | Institut des Nutraceutiques et des Aliments | 306,274 (2%) | 2004 |
| | Fonctionnels (INAF) | 300,000 (2%) | 2005 |
| | FQRNT | 300,000 (2%) | 2006 |
| | Regroupements stratégiques | 300,000 (2%) | 2007 |
| | | 300,000 (2%) | 2008 |
| L. Bazinet et 6 autres collaborateurs | Séparation séquentielle de fractions peptidiques | 17,500 (80%) | 2007 |
| | d'hydrolysate de soya par électrodialyse avec | 52,000 (60%) | 2008 |
| | membrane d'ultrafiltration et évaluation de leurs | 52,000 (60%) | 2009 |
| | bioactivités | 34,500 (80%) | 2010 |
| | FQRNT Projet de recherche en équipe 10 hours/month | | |

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RESEARCH SUPPORT

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|--|--|--------------------|------------------------------|
| List all sources of support (including NSERC grants and university start-up funds) held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required. | | | |
| b) Support currently held | | | |
| L. Bazinet, Y. Pouliot, L. Beaulieu et L. Saucier | Production de molécules protéiques antimicrobiennes naturelles par électrodialyse | 15,000 (80%) | 2007 |
| | avec membrane d'ultrafiltration et remplacement | 40,000 (80%) | 2008 |
| | des additifs alimentaires synthétiques dans les | 40,000 (80%) | 2009 |
| | produits carnés | 25,000 (80%) | 2010 |
| | MAPAQ Programme de soutien à l'innovation en agro-alimentaire 10 hours/month | | |
| Têtu, Bazinet et 3 coll | Green tea intake for maintenance of complete remission in woman with advanced ovarian cancer | 20,000 (20%) | 2007 |
| | | 60,000 (20%) | 2008 |
| | The Cancer Research Society | 40,000 (20%) | 2009 |
| | 5 hours/month | | |
| Savard, T.; Bazinet, L. et 7 coll | Increased quality and safety of food by lactic/alcoholic fermentation | 80,000 (10%) | 2007 |
| | | 80,000 (10%) | 2008 |
| | Agriculture and Agri-Food Canada | 80,000 (5%) | 2009 |
| | Research branch | 80,000 (5%) | 2010 |
| | 5 hours/month | 80,000 (5%) | 2011 |
| Turgeon, S.; Bazinet, L. et 4 coll. | Développement de breuvages fonctionnels à base de jus de fruits | 115,256 (30%) | 2008 |
| | | 134,536 (30%) | 2009 |
| | CRSNG | 137,240 (30%) | 2010 |
| | Subvention de recherche et développement coopérative 10 hours/month | 62,956 (30%) | 2011 |

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| List all sources of support (including NSERC grants and university start-up funds) held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required. | | | |
| b) Support currently held | | | |
| Bazinet, L | Impact of pulsed electric field on membrane fouling susceptibility during electromembrane processes | 26,000(100%) | 2008 |
| | CRSNG | 26,000(100%) | 2009 |
| | Subvention à la découverte | 26,000(100%) | 2010 |
| | 10 hours/month | 26,000(100%) | 2011 |
| | | 26,000(100%) | 2012 |
| Bazinet, L. et 8 coll. | Comparaison de 5 technologies de fractionnement d'hydrolysat et caractérisation des bioactivités des fractions obtenues | 50,000 (60%) | 2009 |
| | MDEIE | 50,000 (60%) | 2010 |
| | PSR-SIIRI Initiative Internationale | 50,000 (60%) | 2011 |
| | 10 hours/month | | |
| c) Support applied for | | | |
| Bazinet L, Beaulieu L, Legault J | Séparation électromembranaire assistée de fractions peptidiques anti-cancer | 100,000 (75%) | 2010 |
| | FQRNT | 100,000 (50%) | 2011 |
| | Recherche en Équipe | 100,000 (50%) | 2012 |
| | 10 hours/month | | |

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

| | | | Personal identification no. (PIN) Valid 264042 | Family name Bazinet |
|----------------------|---------------------------------|-----------------------------------|--|--|
| Name | Type of HQP Training and Status | Years Supervised or Co-supervised | Title of Project or Thesis | Present Position |
| (Name withheld) | Doctoral (In Progress) | Supervised 2009 - | Étude du colmatage par champ pulsé | Étudiant PH.D. |
| (Name withheld) | Master's (In Progress) | Supervised 2009 - | Électroséparation peptides de soya | Étudiante MSc. |
| MÉRIC, Élise | Doctoral (In Progress) | Supervised 2008 - | Production d'un breuvage fonctionnel à partir de jus enrichi | Étudiante au Doctorat |
| ROBLET, Cyril | Doctoral (In Progress) | Supervised 2008 - | Séparation et caractérisation de peptides bioactifs de soya | Étudiant au Doctorat |
| DOYEN, Alain | Doctoral (In Progress) | Supervised 2007 - | Séparation de peptides bioactifs de crabe des neiges | étudiant |
| IZMEROGLU Sophie | Master's (In Progress) | Co-supervised 2007 - | Électrotechnologies et valorisation du babeurre | étudiante |
| SCHREYER, arnaud | Postdoctoral (In Progress) | Co-supervised 2007 - | Separation of bioactive molecules from fermented cabbage | Post-Doc |
| ARAYA-FAR Monica | Res. Associate (In Progress) | Supervised 2003 - | Assistante de recherche | Assistante de recherche |
| (Name withheld) | Undergraduate (Completed) | Supervised 2009 - 2009 | Enrichissement électrodialytique d'un jus de canneberges | Étudiante MSc. |
| (Name withheld) | Undergraduate (Completed) | Supervised 2009 - 2009 | Déminéralisation par électrodialyse avec membrane de | Étudiante École d'ingénieur ESA Angers |
| N'Diaye, Nafissatou | Master's (Completed) | Supervised 2007 - 2009 | Électroséparation Lactoferrine | étudiante |
| (Name withheld) | Undergraduate (Completed) | Supervised 2008 - 2008 | Mise au point méthode de l'étude du colmatage protéique | Industrie |
| (Name withheld) | Undergraduate (In Progress) | Supervised 2008 - 2008 | Application électrotechnologie à séparation phospholipides | Étudiante 2ème cycle |
| MÉRIC, Élise | Élève ingénieur (Completed) | Supervised 2008 - 2008 | Enrichissement protéique de jus | Étudiante au Doctorat |
| (Name withheld) | Stagiaire IUT (Completed) | Supervised 2008 - 2008 | Étude du colmatage des membranes | Étudiant 1er cycle |
| (Name withheld) | Stagiaire Ph.D. (Completed) | Supervised 2008 - 2008 | Étude du colmatage en ÉDUF | Étudiant au doctorat |
| FIRDAOUS, Loubna | Postdoctoral (Completed) | Supervised 2007 - 2008 | Separation of RuBisCo fractions | Maitre de conférence (Univ. Lille, France) |
| BEN YAKHLEF, | Master's (Completed) | Supervised 2006 - 2008 | Anti-oxidant capacity of electrodialytic membranes | étudiante au doctorat |
| CASADEMOI Christophe | Doctoral (Completed) | Supervised 2005 - 2008 | Colmatage des membranes en électrodialyse | Stagiaire post-doctoral |
| (Name withheld) | Master's (Completed) | Co-supervised 2005 - 2008 | Caractérisation du chitosane | Étudiant au doctorat |

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

| | | | Personal identification no. (PIN) Valid 264042 | Family name Bazinet |
|----------------------|---------------------------------|-----------------------------------|--|--|
| Name | Type of HQP Training and Status | Years Supervised or Co-supervised | Title of Project or Thesis | Present Position |
| COSSEC, Céline | Undergraduate (Completed) | Supervised 2007 - 2007 | enrichissement du jus de canneberges | Étudiante école d'ingénieur ISTAB, Bordeaux France |
| PÉRICOU, Jérôme | Élève-ingénieur (Completed) | Supervised 2006 - 2007 | Optimisation de la technologie d'électroréduction | Étudiant (ISTAB, Bordeaux, France) |
| POULIN Jean-françois | Master's (Completed) | Supervised 2005 - 2007 | Étude du fractionnement d'un hydrolisat tryptique de b-lg | Professionnel de recherche |
| AIDER, Mohammed | Doctoral (Completed) | Supervised 2004 - 2007 | Électroséparation des oligomères de chitosane | Post-doctorat |
| LING TENG SHEE | Doctoral (Completed) | Supervised 2004 - 2007 | Préparation électrodialytique d'oligomères de chitosane | Enseignant |
| SCHREYER, Arnaud | Doctoral (Completed) | Supervised 2003 - 2007 | Étude de l'impact de la modulation du potentiel redox du lai | Stagiaire Post-Doctoral |
| LABBÉ, David | Undergraduate (Completed) | Supervised 2006 - 2006 | Généralisation extraction du thé en 2 étapes | Étudiant Doctorat |
| LE ROUX, Thomas | Technician (Completed) | Supervised 2006 - 2006 | Inhibition électrodialytique de la chitosanase | Technicien supérieur (France) |
| RUIZ Benjamin | Stage doctoral (Completed) | Supervised 2005 - 2005 | Étude de l'inhibition du colmatage par champs pulsés | stagiaire post-doctoral (France) |
| ADANDÉ, Sokan | Master's (Completed) | Supervised 2003 - 2005 | Électromigration des isoflavones de soya | professionnelle de recherche |
| AYALA-BRII Erik | Master's (Completed) | Supervised 2003 - 2005 | Colmatage des membranes par les protéines et les minéraux | Directeur scientifique |
| BEN OUNIS, Wassef | Master's (Completed) | Supervised 2003 - 2005 | Électroséparation des protéines du phytosérum | Étudiant au Doctorat |
| LABBÉ, David | Undergraduate (Completed) | Supervised 2004 - 2004 | Séparation des catéchines du thé vert | Étudiant Doctorat |
| (Name withheld) | Undergraduate (Completed) | Supervised 2004 - 2004 | Déminéralisation du sirop d'érable | Professionnelle |
| (Name withheld) | Élève Ingénieur (Completed) | Supervised 2004 - 2004 | Électroréduction du lait à bas voltage | Étudiant Maîtrise |
| LING TENG SHEE, | Stage Master's (Completed) | Supervised 2003 - 2004 | Délipidation du lactosérum par électroacidification | Enseignant |

1. MOST SIGNIFICANT CONTRIBUTIONS TO RESEARCH

1st and 2nd contributions : Articles used for technology transfer. Our team was the first to demonstrate that during electrodialysis treatment, the presence of magnesium was necessary to induce the formation of CaCO_3 , also identified as crystals of calcite (Casademont, Pourcelly and Bazinet. 2007. J. Coll. Interf. Sci. 315 : 544-554.). Furthermore, an alternative configuration for electrodialysis stack was proposed to prevent fouling onset (Ayala-Bribiesca, Araya-Farias, Pourcelly and Bazinet. 2006. Journal of Membrane Science, 280, 790-801.).

3rd contribution : Fundamental work and future technology development. Recently, in a preliminary work, my team in collaboration with the European Institute of Membrane at Montpellier (France), was the first to demonstrate the effect of pulsed electric field (PEF) on protein fouling of anion-exchange membrane during conventional ED of a model solution composed of salts and caseinate (Ruiz, Sistat, Hugué, Pourcelly, Araya-Farias and Bazinet. 2007. Journal of Membrane Science. 287 : 41-50). These results are very interesting for the development of new applications of electromembrane technology on complex medium such as liquid food. Indeed, with the application of PEF technology to electrodialysis the precipitation *in-situ* of proteins for example is now possible since the fouling of membrane is the major scientific lock for electromembrane process intensification.

4th contribution : A lecture presented to scientists, equipment manufacturers and industrials and patent. Lin Teng Shee, F.; Arul, J.; Brunet, S.; Mateescu, A.-M.; Bazinet, L. Solubilization of chitosan by bipolar membrane electro-acidification. Invited lecture at the 17th annual annual of the North American Membrane Society, Chicago (USA), 12-17 may 2006. It appeared that our works are the main studies carried-out on food applications at the international level. The principal manufacturer of bipolar membranes (BP) highlighted during this conference that the development of BP membranes was not linked to their effectiveness but to the limited applications. Hence, there is a great interest in developing new applications especially in food. This technology was in the patent process (Bazinet and Lin Teng Shee. Method for transforming polysaccharides in oligomers with bipolar membrane electrodialysis. US patent application filled on 27 September 2007).

5th contribution : Development of a new electromembrane technology and patent.

Patent entitled «Process and system for separation of organic charged compounds», patent demand n° PCT/CA2005/000337 by **Bazinet** et al. This novel technology constitutes a major breakthrough in purification and fine chemistry separations, since it stands as a reliable and cost-effective separation technique, especially when compared to traditional methods, such as chromatography. This technology, called electrodialysis with filtration membrane (EDFM), couples size exclusion capabilities of UF or porous membranes with the charge selectivity of electrodialysis (ED). EDFM acts by attracting the molecules, according to their charge, through filtration membranes with the proper molecular weight cut-off (MWCO) range according to the fraction of interest. The applications are potentially numerous, as already demonstrated by the very different natures of molecule on which the technology was tested. The impact of this innovative technology concerns the fields of bio-food, bio-pharmaceutic, chemical and biotechnology, sectors for which the purification of bio-compounds is a priority research objective

2. RESEARCH CONTRIBUTIONS AND PRACTICAL APPLICATIONS

a) Articles in refereed publications :

a-1) published or accepted (2005-2009 = 47)

Selection of publications from 2005 to 2009.

Students, authors or co-authors of publications, are highlighted in italic and underlined.

LB#73. Aider, M.; Brunet, S.; **Bazinet, L.** 2009. Effect of Solution Flow Velocity and Electric Field Strength on Chitosan Oligomer Electromigration Kinetics and their Separation in an Electrodialysis with Ultrafiltration Membrane (EDUF) system. Separation and Purification technology, 69 : 63–70.

- LB#72.** Lin Teng Shee, F.; **Bazinet, L.** 2009. Cationic balance and current efficiency of a three-compartment bipolar membrane electrodialysis system during the preparation of chitosan oligomers. *Journal of membrane Science*, 341 : 46-50..
- LB#71.** **Bazinet, L.**; Péricou, J.; Araya-Farias, M. 2009. Effect of flow rate and acid molarity on redox potential modulation during electroreduction of milk and simulated milk aqueous mineral phase. *Food Chemistry*, 114 : 919-926.
- LB#69.** Casademont, C.; Sistat, P.; Ruiz, B.; Pourcelly, G.; **Bazinet, L.** 2009. Electrodialysis of model salt solution containing Whey Proteins : Enhancement by pulsed electric field and modified cell configuration. *Journal of Membrane Science*, 328(1-2) : 238-245.
- LB#68.** **Bazinet, L.**; Firdaous, L. 2009. Membrane processes and devices for separation of bioactive peptides. **Published on invitation.** *Recent patents on Biotechnology*, 3(1) : 61-72.
- LB#66.** Casademont, C.; Araya Farias, M.; Pourcelly, G.; **Bazinet, L.** 2009. Impact of electrodialytic parameters on cation migration kinetics and fouling nature of ion-exchange membranes during treatment of solutions with different magnesium/calcium ratios. *Journal of membrane Science*, In Press.
- LB#65.** Aider, M.; Brunet, S.; **Bazinet, L.** 2009. Effect of pH and Cell Configuration on the Selective and specific electrodialytic separation of Chitosan oligomers. *Separation and Purification Technology*, In Press.
- LB#64.** Labbé, D.; Têtu, B.; Trudel, D. **Bazinet, L.** 2008. Catechin stability of EGC- and EGCG-enriched tea drinks produced by a two-step extraction procedure. *Food Chemistry*. 111 (1) : 139-143.
- LB#62.** Le Dévédec, F.; **Bazinet, L.**; Furtos, A.; Venne, K.; Brunet, S.; Mateescu, M.A. 2008. Separation of chitosan oligomers by immobilized metal affinity chromatography. *Journal of Chromatography A*. 1194 (2), 165-171.
- LB#60.** Schreyer, A., Britten M., Chapuzet J-M., Lessard J. **Bazinet L.** 2008. Electrochemical modification of the redox potential of different milk products and its evolution during storage. *Innovative Food Sciences and Emerging technology*, 9: 255-264.
- LB#59.** Casademont, C.; Pourcelly, G.; **Bazinet, L.** 2008. Effect of Magnesium/Calcium ratio in solutions treated by electrodialysis: characterization of anionic-exchange membrane fouling. *Journal of colloids and interface Science*, 322 (1); 215-223.
- LB#58.** Lin Teng Shee, F.; Angers, P.; **Bazinet, L.** 2008. Characterization of cationic membrane fouling during cheddar cheese whey electroacidification. *Journal of Colloids and Interface Science*. 322 (2) ; 551-557.
- LB#57.** Lin Teng Shee F., Arul J., Brunet S., **Bazinet L.** 2008. Effect of Bipolar Membrane Electrobasification on Chitosanase Activity during Chitosan Hydrolysis. *Journal of Biotechnology*. 134 (3-4) : 305-311.
- LB#56.** Poulin, J.-F.; Amiot, J.; **Bazinet, L.** 2008. Impact of feed solution flow rate on peptide fractionation by electrodialysis with ultrafiltration membrane. *Journal of Agricultural and Food Chemistry*, 56 (6) : 2007-2011.
- LB#54.** Casademont, C.; Pourcelly, G.; **Bazinet, L.** 2007. Effect of Magnesium/Calcium ratio in solutions treated by electrodialysis: characterization of CEM fouling. *J. Coll. Interf. Sci.* 315 : 544-554.
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c-3) Monographs, book or book chapters

7. Bazinet, L.; Doyen, A.; Roblet, R. **2010.** Electrodialytic phenomena and electromembrane technologies associated. **Published on invitation.** In Separation, extraction and concentration processes in the food, beverage and nutraceutical industries. S.S.H. Rizvi (ed), Woodhead Publishing. In Press.

6. Bazinet, L.; Lachkar, D.P.; Pouliot, Y. **2009.** Emerging membrane technologies and applications for added-value dairy ingredients. **Published on invitation.** In Taylor and Francis, In press.

4. Pourcelly, G.; **Bazinet, L.** 2008. Developments of Bipolar Membrane Technology in Food and Bio-industries. *In Handbook of Membrane Separations: Chemical, Pharmaceutical and Biotechnological Applications*. Marcel Dekker Inc, New York.

c-4) Conference presentations (2005-2009 = 29)

Selection of conferences or lectures from 2005 to 2009

Students, authors or co-authors of presentations, are highlighted in italic and underlined.

60. **L. Bazinet**, L. Firdaous, P. Dhulster, J. Amiot, D. Lecouturier, F. Lutin, L.-P. Vézina., Scale-up of electrodialysis with ultrafiltration membranes: fractionation of an antihypertensive peptide from alfalfa white protein hydrolysate. Conférence présentée dans le cadre de Euromembrane 2009, session «Pharmaceuticals and biotechnology», Montpellier (France), 6-10 septembre 2009.

59. C. Casademont, E. Ayala-Bribiesca, P. Sistat, B. Ruiz, G. Pourcelly, **L. Bazinet**. Electrodialysis of model salt solutions containing whey proteins : mineral fouling investigations and enhancement by pulsed electric field and modified cell configuration. Conférence présentée dans le cadre de Euromembrane 2009, session «Fouling», Montpellier (France), 6-10 septembre 2009.

55. Vanhoute, M. ; Dhulster, P. ; Firdaous, L. ; Froidevaux, R. ; Lecouturier, D. ; Guillochon, D. ; **Bazinet, L.** Influence de l'hème sur le fractionnement d'un hydrolysate peptidique d'hémoglobine bovine par électrodialyse avec membranes d'ultrafiltration. Conférence présentée lors de la 2^{ème} journée de l'Union de Génie des Procédés et d'Energétique du Nord Pas-de-Calais, Maubeuge (France), 14 mai 2009.

54. N'diaye, N. ; Pouliot, Y. ; Saucier, L. ; Beaulieu, L. ; **Bazinet, L.** Séparation électrodialytique de la lactoferrine bovine. Conférence présentée lors du colloque «Journée d'Information Scientifique et Technique en Génie Agroalimentaire, Saint-Hyacinthe (QC), 25 Mars 2009.

50. Araya-Farías, M. ; **Bazinet, L.** Electrodialysis : Separación y fraccionamiento de moléculas bioactivas. Conférencier invité dans le cadre du projet international, Ciclo Internacional de Seminarios: Investigación aplicada a la Industria Alimentaria. Valparaíso, Chili, 17 octobre 2008.

48. Pourcelly, G. ; Casademont, C. ; Ayala Bribiesca, E. ; Araya Farias, M. ; **Bazinet, L.** Impact of diluate solution composition in protein and magnesium on membrane fouling during conventional ED. Conférence présentée à l'International Congress on Membranes and Membrane Processes (ICOM), Section Membrane fouling-General topics, Honolulu, Hawaii, 12-18 Juillet 2008

42. **Bazinet, L.** J.F., Poulin, J. Amiot. Influence of process parameters on peptide fractionation by electrodialysis with ultrafiltration membrane. Conférence présentée dans le cadre de ICEF 10 «International Congress of Engineering and Food», Vina del Mar, Chili, 20-24 avril 2008.

41. **Bazinet, L.** L'électrodialyse avec membrane d'ultrafiltration : application à la séparation des oligomères de chitosane et aux peptides bioactifs. **Conférencier invité** lors des Diners du Québec, dans le cadre du 4^{ème} symposium International Santé Mer. Granville, France, 4-5 Octobre 2007.

35. Lin Teng Shee, F. ; Arul, J. ; Brunet, S. ; Mateescu, A.-M. ; **Bazinet, L.** Solubilization of chitosan by bipolar membrane electro-acidification. 17^{ème} meeting annuel de la North American Membrane Society, «Electrodialysis» session. Chicago (USA), 12-17 mai 2006.

34. Poulin, J.-F. ; Amiot, J. ; **Bazinet, L.** Electrodialysis with ultrafiltration membrane : a new way for simultaneous purification of basic and acid bioactive peptides. 17^{ème} meeting annuel de la North American Membrane Society, Chicago (USA), 12-17 mai 2006.

34. **Bazinet, L.** Séparation des protéines sériques par EAMP. **Conférencier invité**, MEMPRO 3 «Intégration des membranes dans les procédés», Nancy (France) 5-7 avril 2006.

32. Schreyer, A., Chapuzet J.-M., **Bazinet, L.**, Britten M., Lessard J. Étude de la régulation électrochimique du potentiel redox du lait pour améliorer son entreposage et/ou sa transformation ultérieure. Conférence présentée au symposium «Journées d'électrochimie», Saint-Malo (France), 5-8 July 2005.